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**% Sequence Similarity to Human OP-1 Seven-Cysteine Domain**

Sequence	% Similarity	% Non Conservative
hOP-1	100	0
mOP-1	100	0
hOP-2	97	3
mOP-2	97	3
BMP-5	97	3
BMP-6	96	4
Vgr-1(PT)	94	6
OP-3	91	9
60A	90	10
BMP-4	90	10
BMP-2	89	11
dpp	87	13
UNIVIN	87	13
dpp(PT)	86	14
Vg-1	86	14
CDMP-1	85	15
CDMP-3	83	17
GDF-3	83	17
CDMP-2	82	18
DORSALIN	79	21
GDF-1(PT)	78	22
GDF-10	78	22
BMP-3b	78	22
BMP-10	78	23
BMP-3	78	23
SCREW	77	23
ADMP	77	24
TGF- $\beta$ 2	73	27
GDF-1	73	28
BMP-9	73	28
NODAL	71	29
Inhibin $\beta$ A	71	29
BMP-15	71	29
TGF- $\beta$ 3	69	31
Inhibin $\beta$ B	69	31
Inhibin $\beta$ C	69	31
TGF- $\beta$ 5	67	33
TGF- $\beta$ 1	67	33
GDF-12	67	33
GDF-11	66	34
TGF- $\beta$ 4	66	34
GDF-9	66	34
GDF-8	64	36
BMP-11	60	40
GDNF	49	51

**FIG. 1**



FIG. 2A

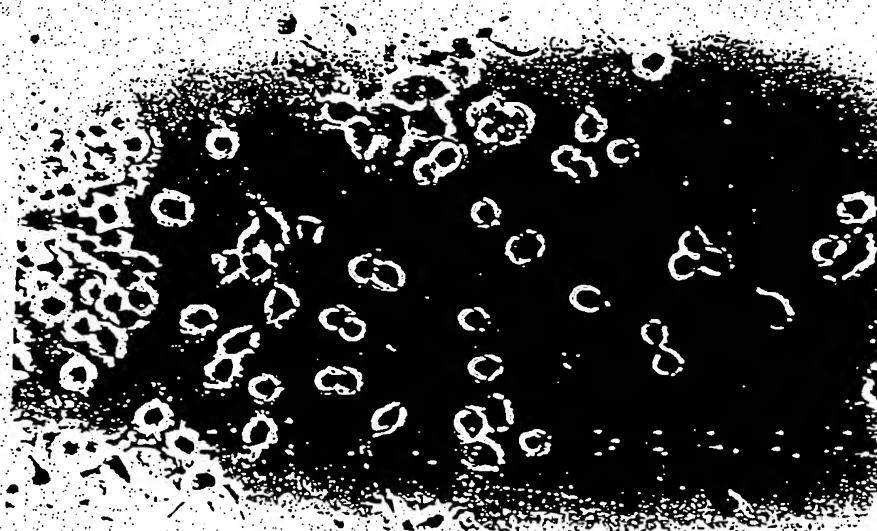


FIG. 2B

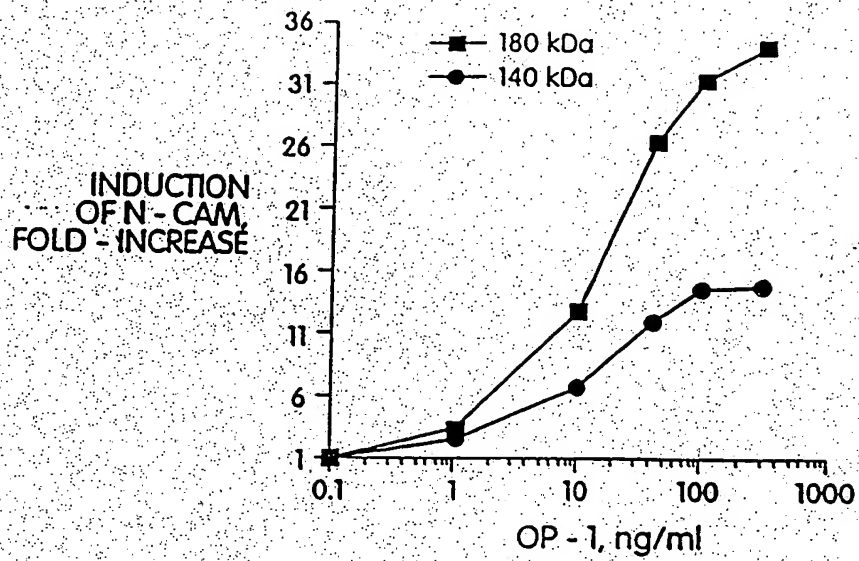


FIG. 3A

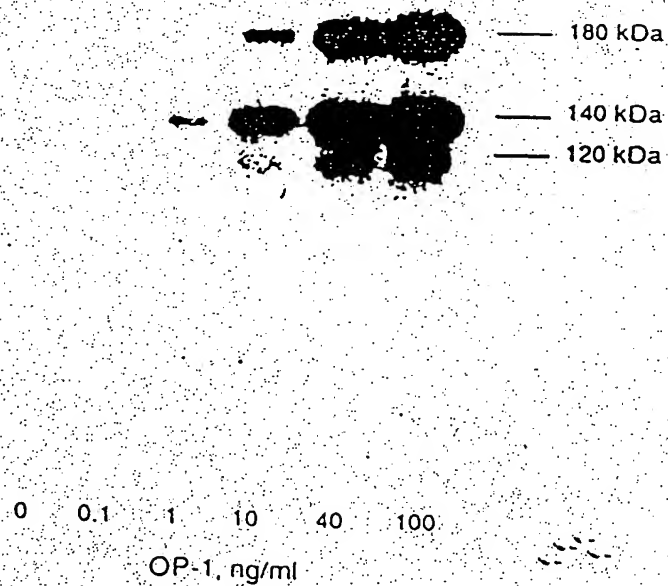


FIG. 3B

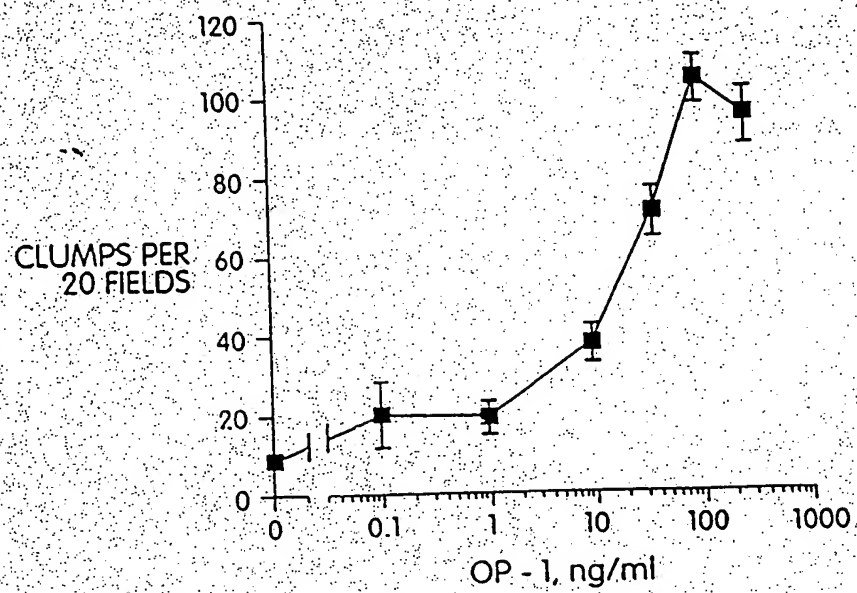


FIG. 4

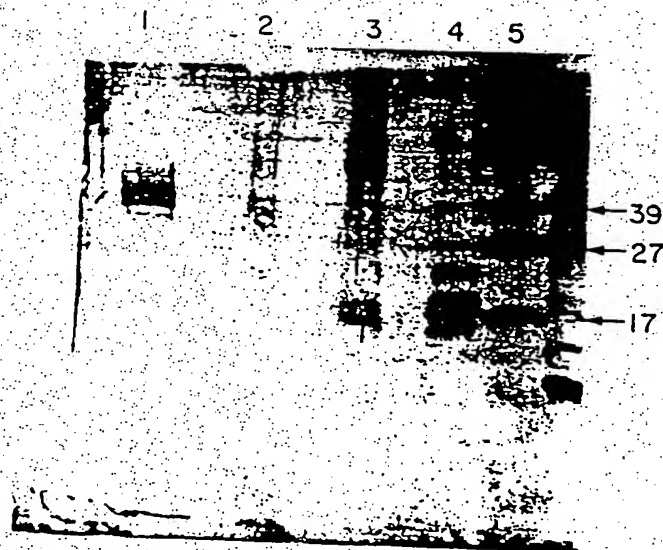
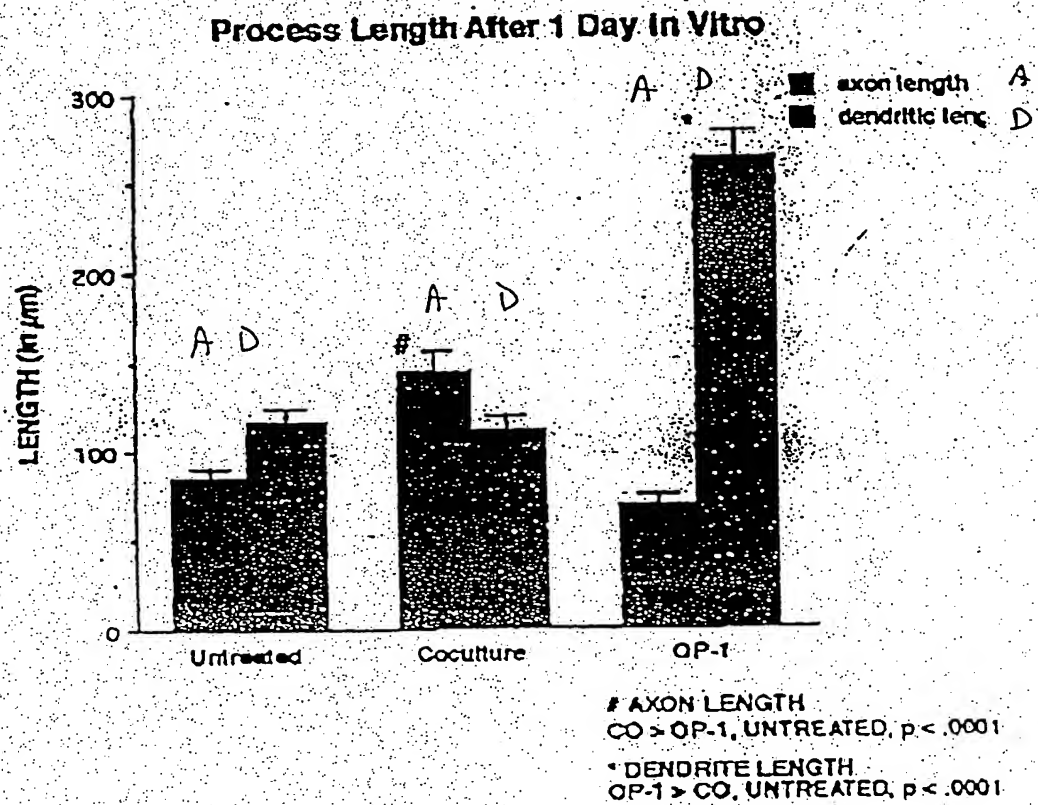
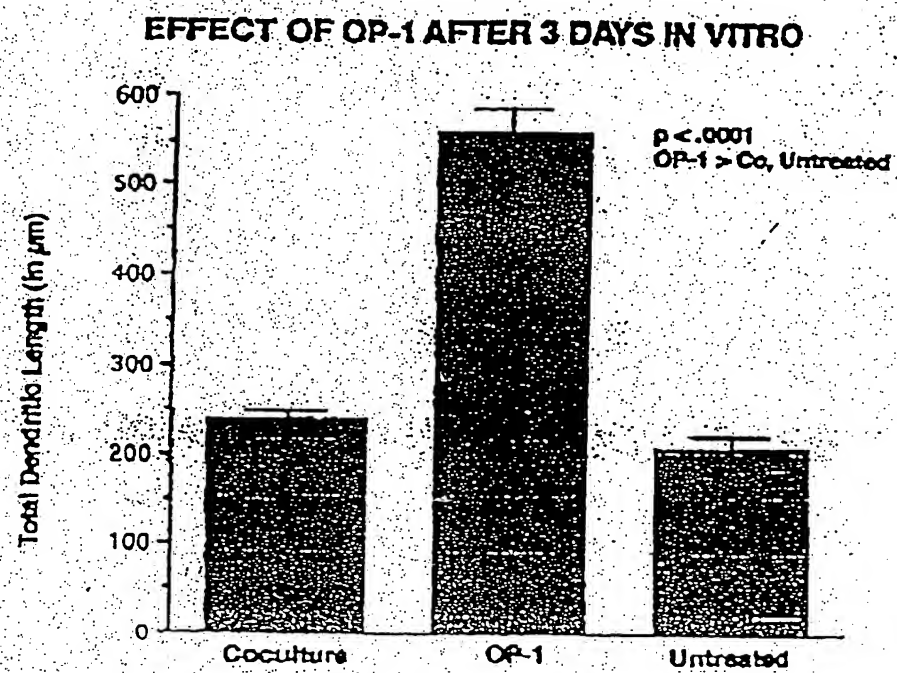


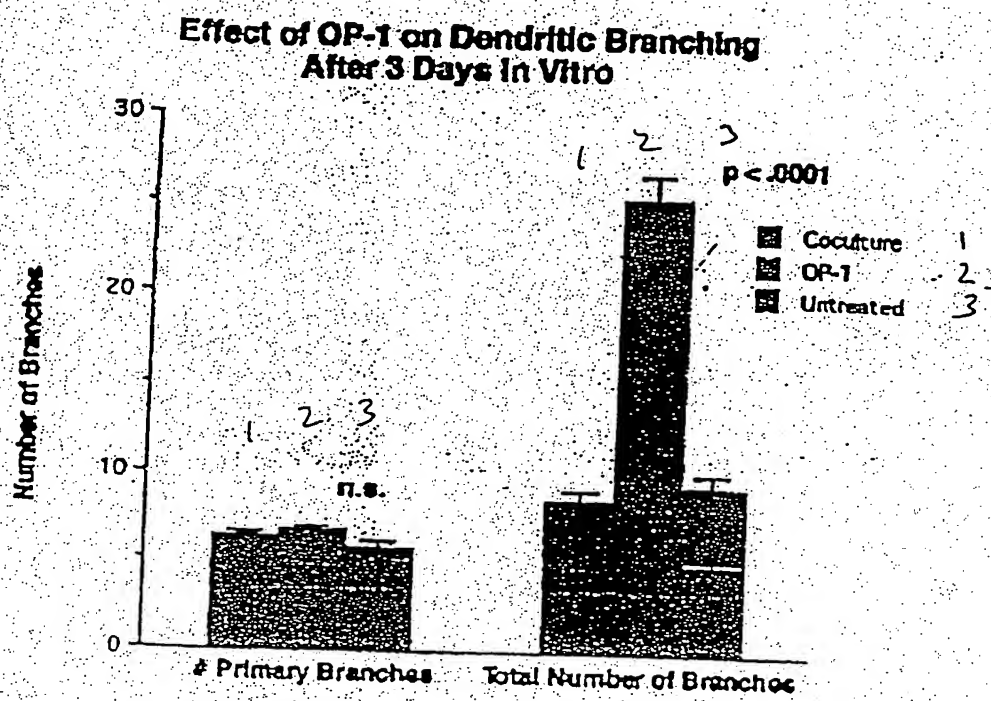
FIG. 5



**FIG. 6**



**FIG. 7**



**FIG. 8**



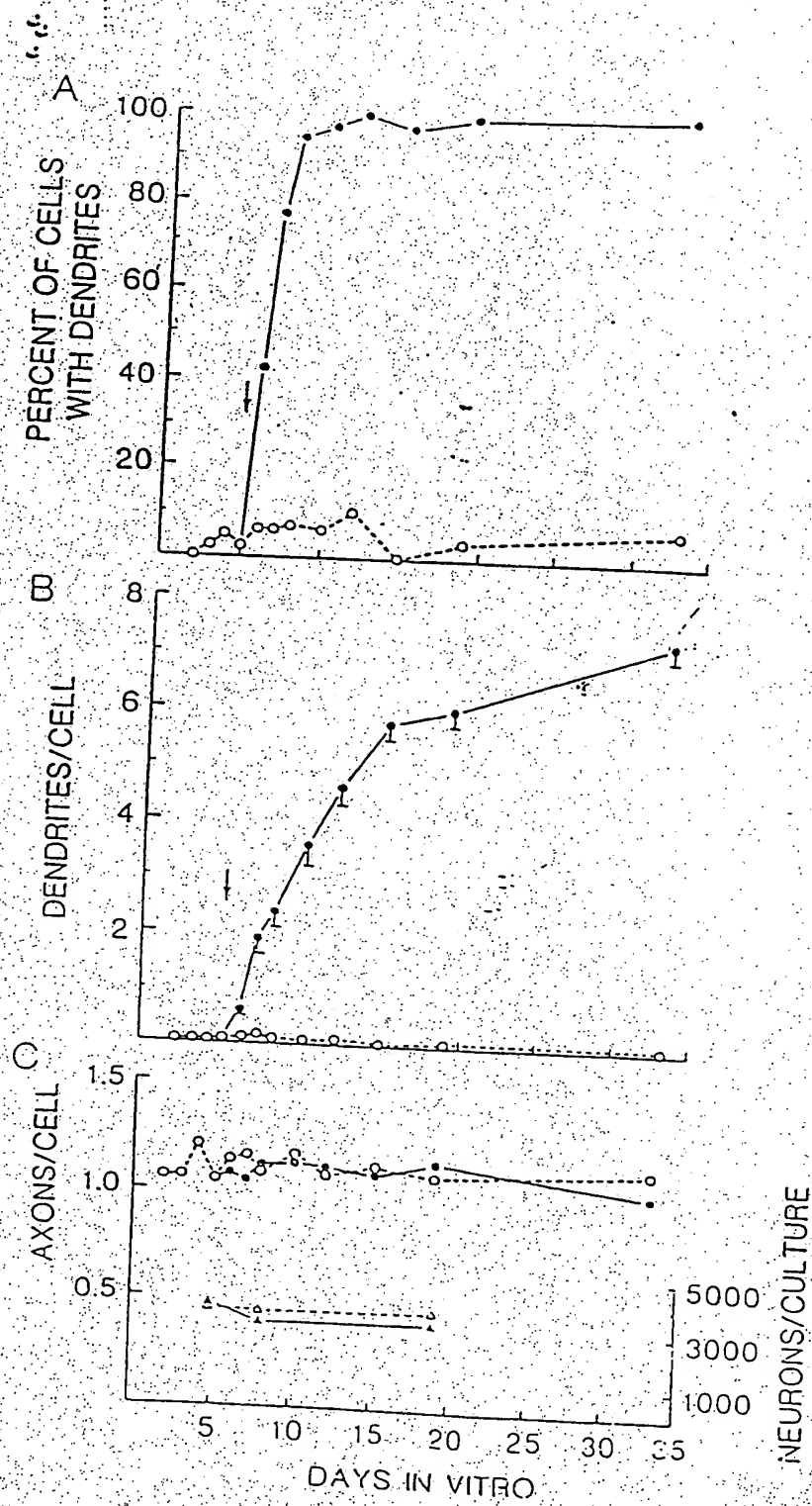


FIG. 9

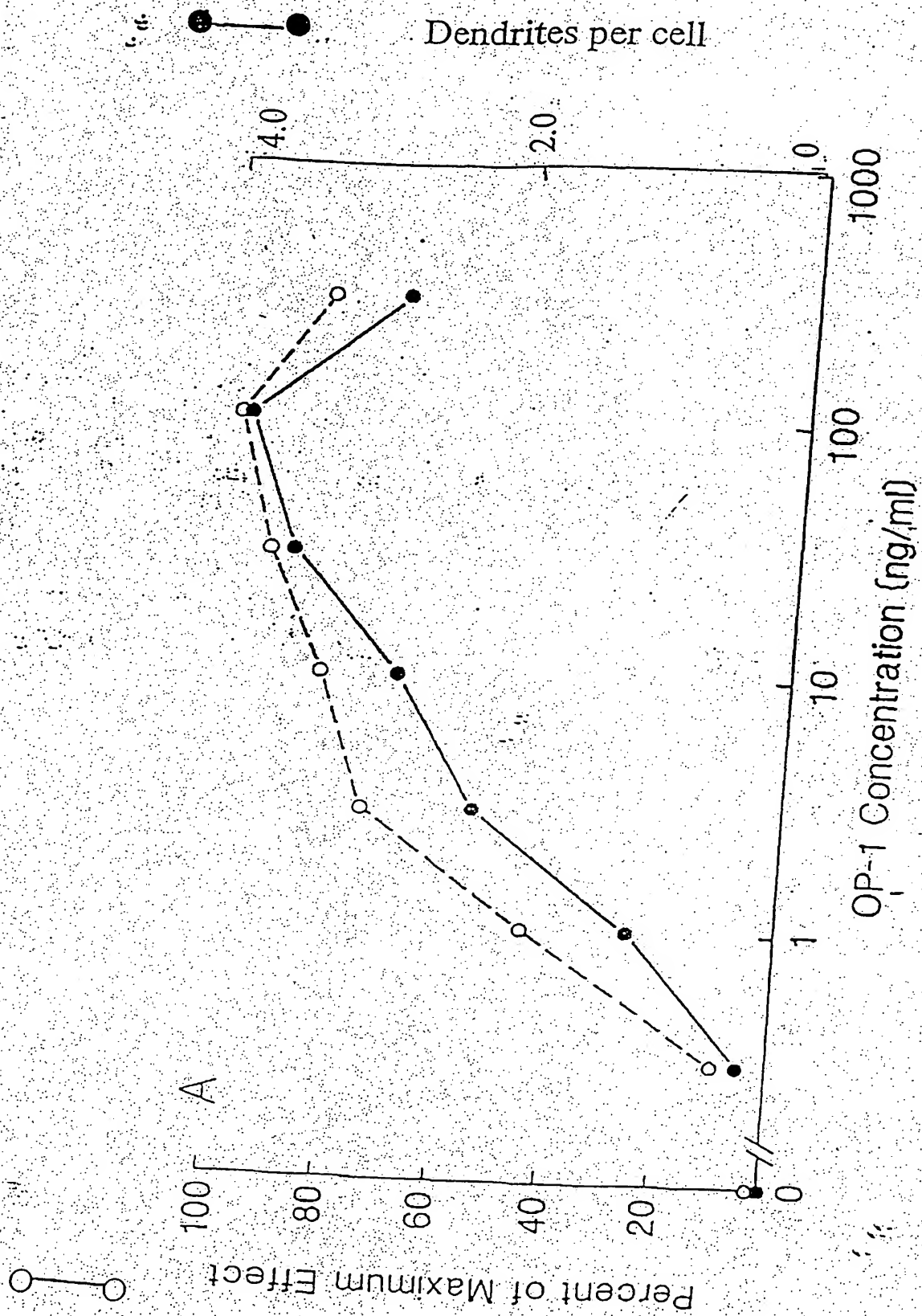
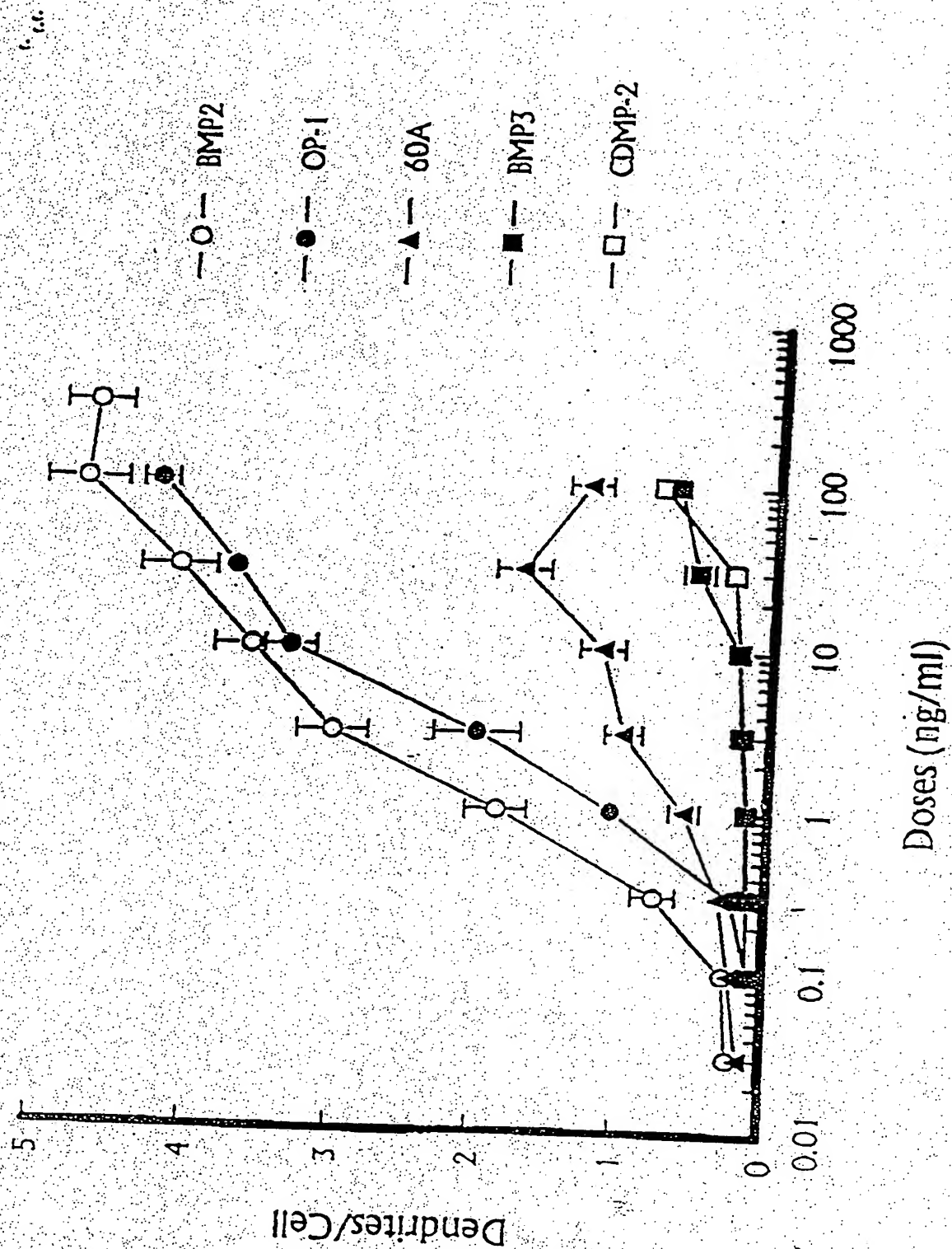


FIG. 10

FIG. 11



# SYNAPSE FORMATION IN HETEROCHRONIC CULTURES

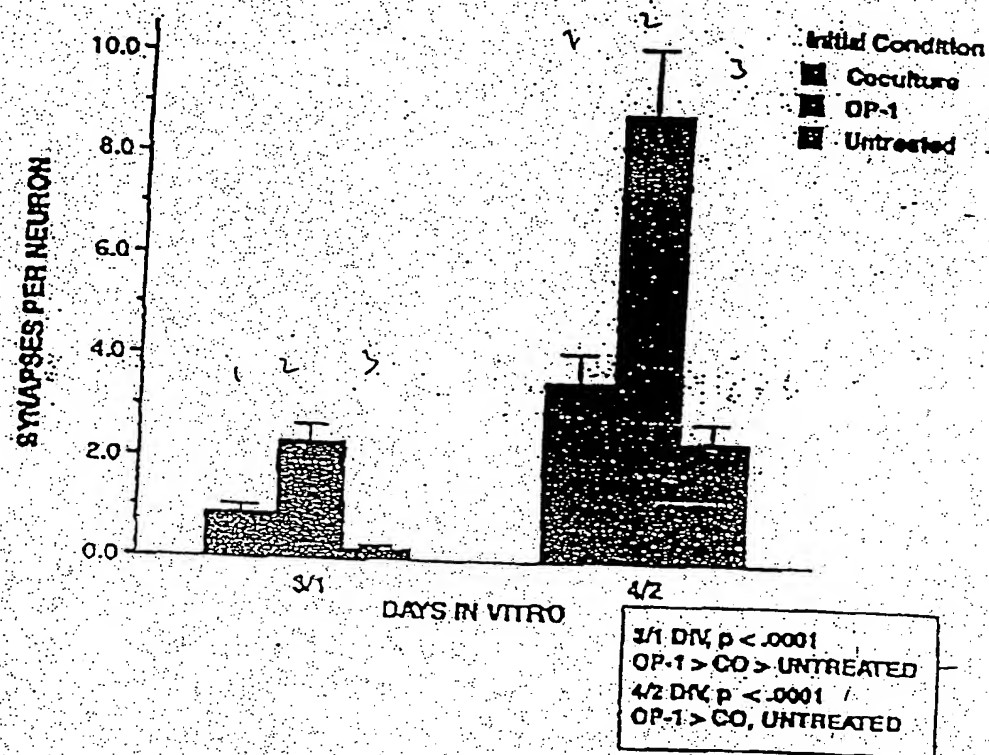
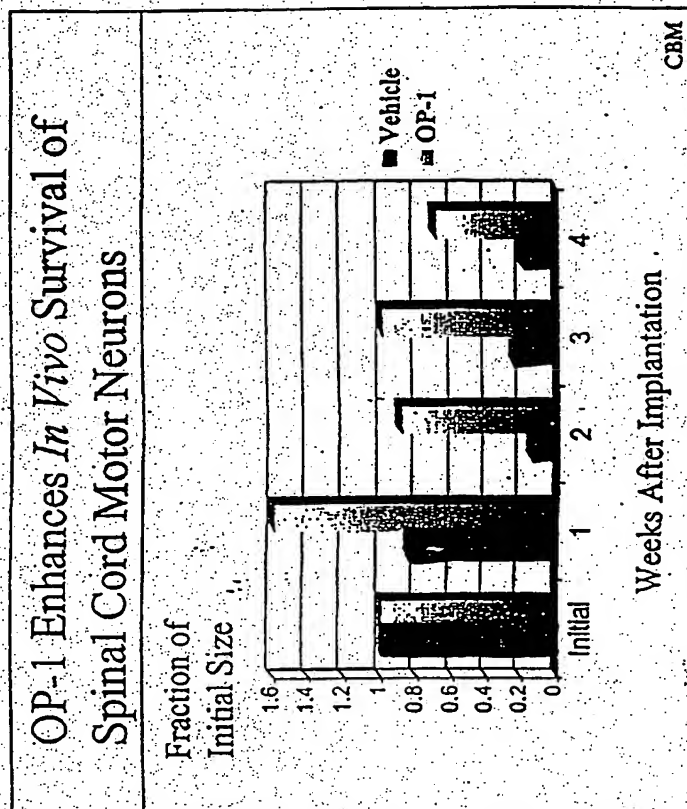


FIG. 12



**FIG. 13**

Neurofilament



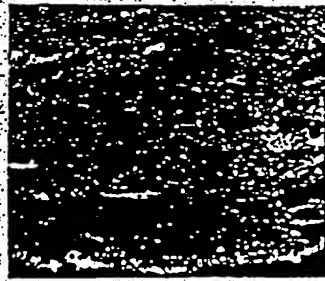
Vehicle



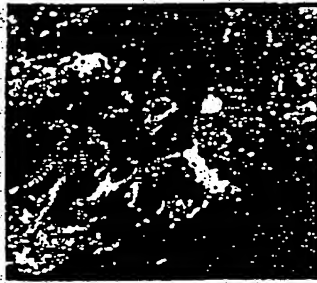
OP-1

FIG. 14

Cholinesterase



Vehicle



OP-1

FIG. 15

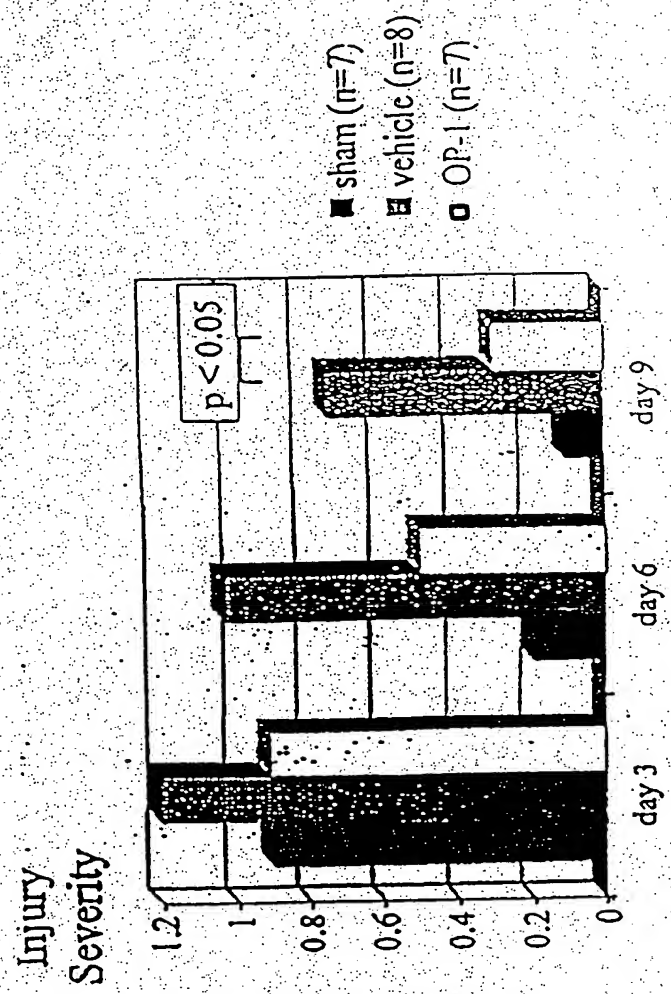


FIG. 16



Failure  
Score

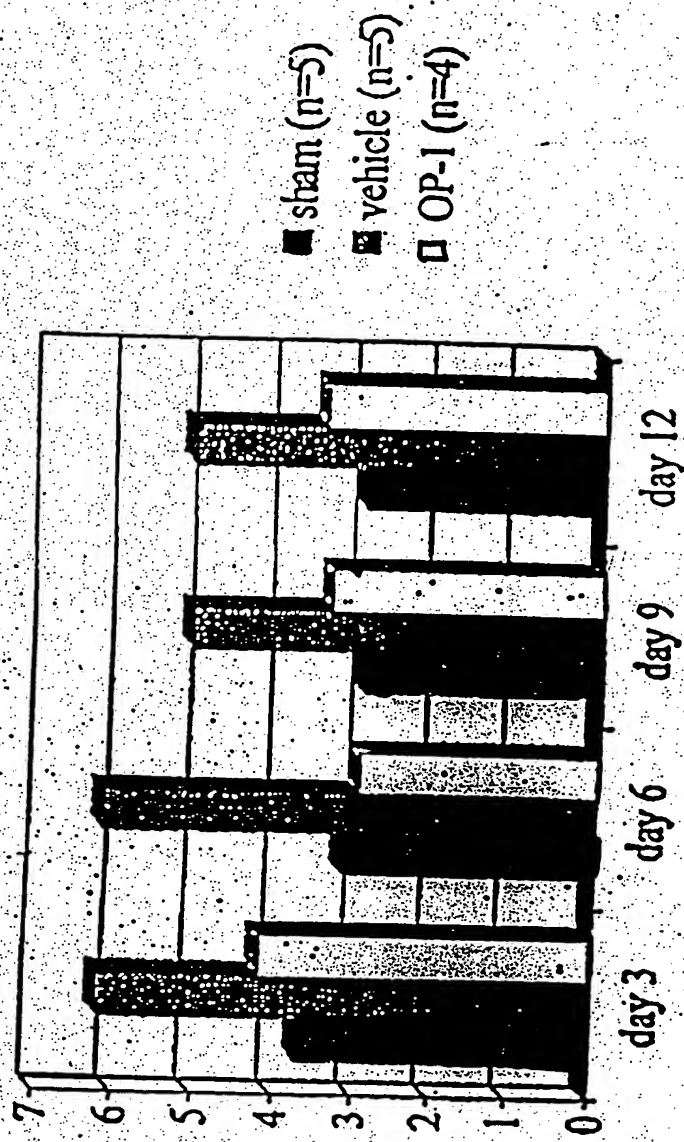


FIG. 17

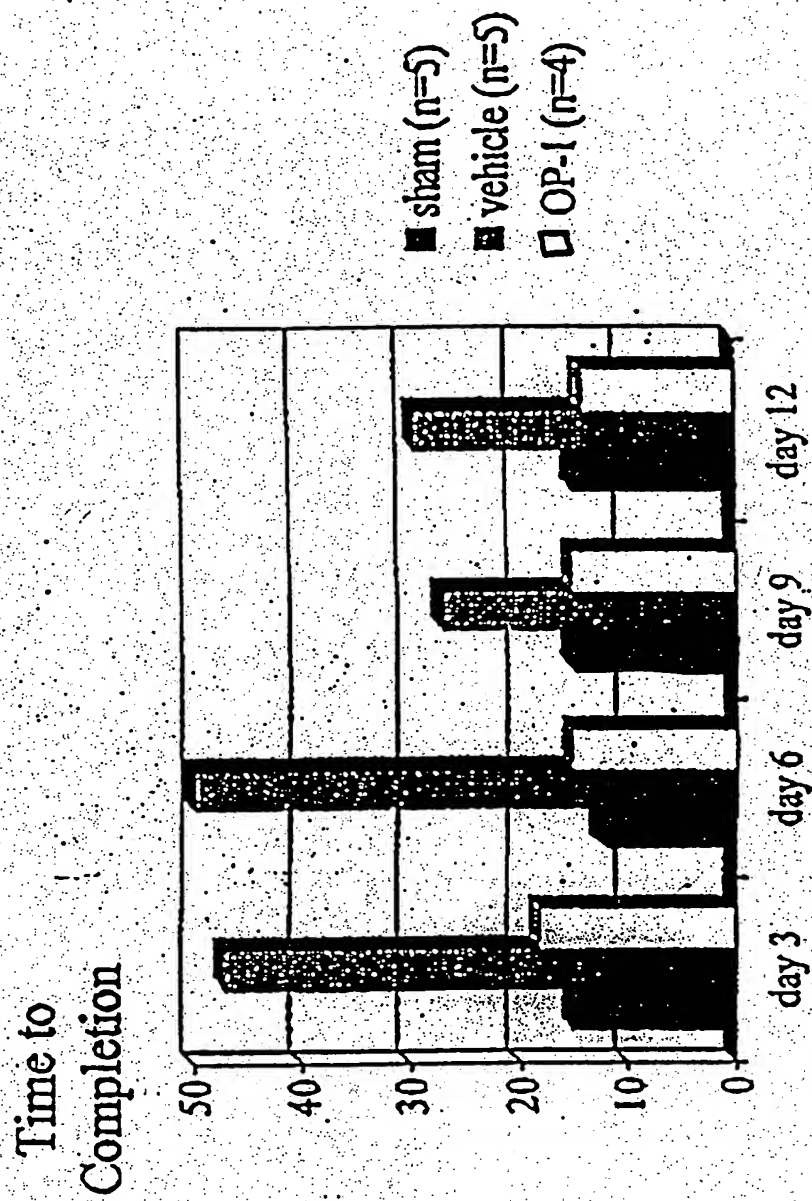


FIG. 18